

Appl. No. : 09/830820  
Filed : April 27, 2001

IN THE CLAIMS:

Please amend Claims 10, 21, and 31 as follows:

Claims 1-9 (Previously Canceled)

cl 10. (Currently Amended) A hybrid powered vehicle comprising a vehicle body, a propulsion unit configured to propel the vehicle body, a battery unit configured to supply sufficient power to the propulsion unit to propel the vehicle body, the battery unit comprising a battery configured to store electric power, a battery unit controller, a battery unit sensor configured to detect at least one operational characteristic of the battery and emit a signal including battery data indicative of the operational characteristic of the battery, and a battery unit memory configured to store the battery data, the battery unit being formed as integral unit, a fuel cell unit configured to supply sufficient power to the propulsion unit to propel the vehicle body, the fuel cell unit comprising a fuel cell configured to generate electrical power from a flow of fuel therethrough, a fuel cell unit controller, ~~the~~ a fuel cell unit sensor configured to detect at least one operational characteristic of the fuel cell and emit a signal including fuel cell data indicative of the operational characteristic of the fuel cell, and a fuel cell unit memory configured to store the fuel cell data, the fuel cell unit being configured as an integral unit, and a main controller configured to selectively supply power from the battery unit and the fuel cell unit to the propulsion unit.

11. (Original) The vehicle according to Claim 10 additionally comprising a first bidirectional data connection between the main controller and the battery unit controller and a second bidirectional data connection between main controller in the fuel cell unit controller.

12. (Original) The vehicle according to Claim 10, wherein at least one of the fuel cell unit and the battery unit is removable from the vehicle as an integrated unit.

13. (Original) The vehicle according to Claim 10, wherein the battery unit controller is configured to determine an amount of electrical power in the battery, the fuel cell unit controller being configured to determine an amount of electrical power available from the fuel cell, the main controller being configured to emit a warning signal if the amount of electrical power available from at least one of the battery unit and the fuel cell unit is below a predetermined amount.

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14. (Original) The vehicle according to Claim 10 additionally comprising a battery unit switch selectively connecting the battery unit with the main controller and a fuel cell unit switch selectively connecting the fuel cell unit with the controller, the main controller being configured to detect an abnormality in the battery unit and the fuel cell unit, and to operate at least one of the switches if an abnormality is detected in one of the battery unit and the fuel cell unit.

15. (Withdrawn)

16. (Withdrawn)

17. (Withdrawn)

18. (Withdrawn)

19. (Withdrawn)

20. (Withdrawn)

cl  
21. (Currently Amended) A hybrid-powered vehicle comprising a vehicle body, a propulsion device configured to propel the vehicle body, first and a-second power supply sources being different from each other, each power supply source being configured to supply sufficient power to drive the propulsion device, and a controller configured to determine an amount of power available from each of ~~said-the~~ first and ~~said-second~~ power supply sources, the controller being configured to calculate an approximate travel range of the vehicle based on the amount of power available from the first and second power supply ~~devices-sources~~.

22. (Original) The vehicle as set forth in Claim 21, wherein the first power source is a fuel cell and the second power source is a battery, the controller being configured to determine a fuel consumption ratio of the fuel cell and a capacity consumption ratio of the battery, the controller also being configured to determine the approximate travel range based on the fuel consumption ratio and the capacity consumption ratio.

23. (Original) The vehicle as set forth in Claim 22, wherein the controller is configured to emit a warning if the approximate travel range is not more than a predetermined travel range.

24. (Original) The vehicle as set forth in Claim 22 additionally comprising a memory including data regarding capacity of the battery corresponding to a current and a

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voltage of the battery, the controller being configured to calculate battery capacity based on the data and at least one of the current and voltage of the battery.

25. (Original) The vehicle as set forth in Claim 24, wherein the controller is configured to obtain a first detection data regarding at least one of current and voltage of the battery and a second detection data regarding at least one of current and voltage of the battery after a predetermined time period has elapsed from when the first detection data was obtained.

26. (Original) The vehicle as set forth in Claim 25, wherein the controller is configured to determine an impedance of the battery from the calculated capacity value based on the first and the second detection data.

27. (Withdrawn)

28. (Withdrawn)

29. (Withdrawn)

30. (Withdrawn)

31. (Currently Amended) A hybrid-powered vehicle comprising a vehicle body, a propulsion device configured to propel the vehicle body, first and a second power supply sources being different from each other, each power supply source being configured to supply sufficient power to drive the propulsion device, and a controller configured to determine an amount of power available from each of said the first and said second power supply sources, the controller including means for calculating an approximate travel range of the vehicle based on the amount of power available from the first and second power supply ~~devices~~ sources.

32. (Original) The vehicle as set forth in Claim 31, wherein the first power source is a fuel cell and the second power source is a battery, the means for calculating including means for determining a fuel consumption ratio of the fuel cell and a capacity consumption ratio of the battery, the means for calculating including means for determining the approximate travel range based on the fuel consumption ratio and the capacity consumption ratio.

33. (Original) The vehicle as set forth in Claim 32, wherein the controller includes means for emitting a warning if the approximate travel range is not more than a predetermined travel range.

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34. (Original) The vehicle as set forth in Claim 32 additionally comprising a memory including data regarding capacity of the battery corresponding to a current and a voltage of the battery, the controller being configured to calculate battery capacity based on the data and at least one of the current and voltage of the battery.

35. (Original) The vehicle as set forth in Claim 34, wherein the controller includes means for obtaining first and second detection data regarding at least one of current and voltage of the battery with a predetermined time period delay between obtaining the first and second detection data.

36. (Original) The vehicle as set forth in Claim 35, wherein the controller includes means for determining an impedance of the battery from the calculated capacity value based on the first and the second detection data.

37. (Withdrawn)

38. (Withdrawn)

39. (Withdrawn)

40. (Withdrawn)